Flashcards

File: On_Designing_a_Secure_E-Commerce_Transaction_Manag

Date: 21-04-2025

Total Cards: 10

Card 1:

Q: What is the core problem addressed in the paper regarding e-commerce transactions?

A: The lack of privacy and security in e-commerce transactions makes customers hesitant to share personal informa

Card 2:

Q: What is the proposed solution to enhance security in the e-commerce transaction system?

A: A DRM (Digital Rights Management) based system where a single-use token containing transaction details is ge

Card 3:

Q: How does the proposed system utilize DRM to protect customer information?

A: The transaction manager creates a DRM package containing a single-use token with customer, merchant, produ

Card 4:

Q: What are the key benefits of using a single-use token in the proposed system?

A: The single-use token minimizes potential losses from fraud by expiring after a single transaction. It also enhanc

Card 5:

Q: What modeling language is used to design the proposed system and why?

A: UML (Unified Modeling Language) is used. It's chosen for its ability to create flexible, maintainable, reusable, and

Card 6:

Q: What are the four main actors involved in the proposed e-commerce transaction system?

A: Customer, Merchant, Payment Gateway, and Transaction Manager.

Card 7:

Q: What is the role of the Transaction Manager in the proposed system?

A: The Transaction Manager collects order information, validates the customer, generates the single-use token, wra

Card 8:

Q: How does the sequence diagram contribute to understanding the proposed system?

A: The sequence diagram illustrates the time-dependent interactions and message passing between the Customer,

Card 9:

Q: Beyond security, what other advantages does the proposed system offer?

A: The system stores customer and merchant information within the token for future reference, facilitating transactio

Card 10:

Q: How does the proposed system address the risk of data alteration during transmission?

A: By encapsulating the transaction data within a DRM package, the system ensures data integrity. The package, e